


Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. P23684		Serial No. 10/646,711	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Applicant Hiroshi NOMURA			
				Filing Date August 25, 2003		Group 2872	



U.S. PATENT DOCUMENTS												
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE						
[Handwritten initials]	2004 / 0 0 4 2 0 9 5	03/04/04	NOMURA									
	2004 / 0 0 4 2 0 9 3	03/04/04	NOMURA									
	2004 / 0 0 6 2 5 3 6	04/01/04	NOMURA									
	2004 / 0 0 5 1 9 6 8	03/18/04	NOMURA									
	2004 / 0 0 5 1 9 7 0	03/18/04	NOMURA									
	2004 / 0 0 6 2 5 3 7	04/01/04	NOMURA									
	2004 / 0 0 5 1 9 7 2	03/18/04	NOMURA									
	2004 / 0 0 4 2 0 9 1	03/04/04	NOMURA									
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	2004 / 0 0 4 2 0 9 2	03/04/04	NOMURA									
	6 3 6 6 3 2 3	04/02/02	SHONO									
	6 1 1 5 1 9 0	09/05/00	HIRAI									
	6 0 6 4 5 3 3	05/16/00	KENIN et al.									
	2003 / 0 0 8 1 3 2 5	05/01/03	NOMURA et al.									
	2001 / 0 0 2 4 5 7 3	09/27/01	NOMURA et al.									
	2002 / 0 1 3 5 9 0 0	09/26/02	NOMURA et al.									
	6 0 7 5 6 5 5	06/13/00	FUNAHASHI									


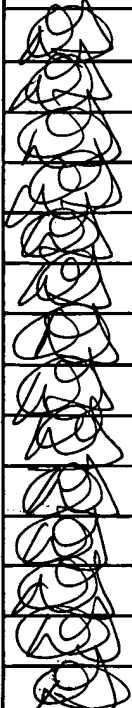
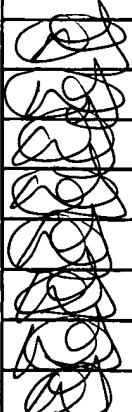

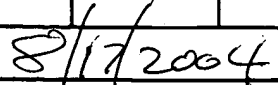
EXAMINER <u>D. Gray</u>	DATE CONSIDERED <u>8/17/2004</u>
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*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. PATENT DOCUMENTS														
EXAMINER INITIAL	YEAR	MONTH	DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	2002	/ 0	1	3	5	9	0	1	09/26/02	NOMURA et al.				
	2003	/ 0	0	8	1	3	2	7	05/01/03	NOMURA et al.				
	2002	/ 0	1	3	5	8	9	6	09/26/03	NOMURA et al.				
			6	0	5	5	1	1	6	04/25/00	NOMURA et al.			
			6	2	0	4	9	7	7	03/20/01	IWASA			
			5	4	3	0	5	1	6	07/04/95	UZIIE et al.			
	2003	/ 0	0	8	1	9	4	8	05/01/03	NOMURA et al.				
	2001	/ 0	0	1	9	4	5	8	09/06/01	NOMURA et al.				
			4	9	9	3	8	1	5	02/19/91	YAMAZAKI et al.			
			5	8	1	8	6	4	7	10/06/98	NISHIO et al.			
			5	7	3	1	9	1	3	03/24/98	IMANARI			
			5	7	3	9	9	6	2	04/14/98	ASAKURA et al.			
	2003	/ 0	1	5	6	8	3	2	08/21/03	NOMURA et al.				
			5	5	8	7	7	5	4	12/24/96	KATAYAMA et al.			
			6	0	5	2	5	3	5	04/18/00	UNO			
			5	2	2	3	8	7	3	06/29/93	TSUBOI			
			5	0	8	6	3	1	2	02/04/92	TANAKA et al.			
			5	4	9	9	1	4	3	03/12/96	SAKAMOTO et al.			
			6	0	6	9	7	4	5	05/30/00	FUJII et al.			
			6	3	2	4	0	1	9	11/27/01	TAKANASHI et al.			
		5	4	8	5	3	1	5	01/16/96	NOMURA et al.				
EXAMINER <u>D. Gray</u> DATE CONSIDERED <u>8/17/04</u>														

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U.S. PATENT DOCUMENTS									
EXAMINER INITIAL		DOCUMENT NUMBER			DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS									
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		2	2 6 2	3 5 6	06/16/93	UNITED KINGDOM			
	2003	-	2 0 7	7 0 9	07/25/03	JAPAN			
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		10	- 3 2	7 4 0	02/03/98	JAPAN			X
	7	- 2 8 8	7 2 4	10/31/95	JAPAN			X	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)									
		1	English Language Abstract of JP 58-10708.						
		2	English Language Abstract of JP 2003-207709.						
		3	English Language Abstract of JP 2002-277719.						
		4	English Language Abstract of JP 10-282394.						
		5	English Language Abstract of JP 58-162914.						
EXAMINER <u>R. Gray</u>						DATE CONSIDERED <u>8/17/2004</u>			
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EXAMINER INITIAL	DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	4	5	2	5	0	5	0	06/25/85	OHASHI			
	4	6	4	3	5	5	5	02/17/87	WAKABAYASHI			
	4	7	2	1	9	7	2	01/26/88	WAKABAYASHI			
	4	7	9	2	8	2	2	12/20/88	AKIYAMA et al.			
	5	8	1	8	6	4	7	10/06/98	NISHIO et al.			
	6	0	3	1	9	9	8	02/29/00	SHONO			
	4	4	5	1	1	2	9	05/29/84	IKARI et al.			
	4	6	4	3	5	5	4	02/17/87	OGAWA			
	4	7	7	1	3	0	3	09/13/88	MATSUMOTO et al.			
	4	8	8	7	1	0	7	12/12/89	NAKAMURA et al.			
	5	1	3	6	3	2	4	08/04/92	TSUBOI et al.			
	5	7	6	5	0	4	9	06/09/98	HASE et al.			
5	8	3	2	3	2	6	11/03/98	TANAKA				
6	3	6	6	3	2	3	04/02/02	SHONO				
FOREIGN PATENT DOCUMENTS												
	DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
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	6	-	1	8	7	7	7	01/28/94	JAPAN			X
	7	-	1	9	1	2	4	9	07/28/95	JAPAN		
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